

11. Cell phones, laptop computers, tablets, and other electronic devices may not be used for non-course-related activity at any time in class. Students who wish to use a laptop computer, tablet, or cell phone during class as an aid to following the material being covered must take care not to distract others.

COURSE OBJECTIVES

After successful completion of this course, the student should be able to:

- (1) Describe the biochemical composition, replication strategies, functions, and significance of viruses and other non-cellular infectious agents.
- (2) Read and understand current scientific literature related to viruses and other non-cellular infectious agents.
- (3) Convey orally and in writing information from the scientific literature related to viruses and other non-cellular infectious agents.

Alignment of Assignments with Course Objectives:

The course objective(s) aligned with each assignment are given on the last page of this syllabus.

Alignment of Course Objectives with Learning Goals/Educational Outcomes:

The **Student Learning Goals for the Core Curriculum in the University System of Georgia (USG)** are available online at http://www.usg.edu/academic_affairs_handbook/section2/C738/. The application of these learning goals in VSU's Core Curriculum is explained at <http://www.valdosta.edu/academics/academic-affairs/vp-office/vsu-core-curriculum.php>.

Each Core Area (A1, A2, B, C, D, and E) has one or more learning goals. In this syllabus they are referred to as VSUA1, VSUA2, VSUB, VSUC, VSUD, and VSUE.

The **Biology Undergraduate Educational Outcomes** (numbered 1-5) are available in the VSU Undergraduate Catalog, and the **Biology Graduate Educational Outcomes** are available in the VSU Graduate Catalog and are numbered 1 through 4.

Both catalogs are available online at <http://catalog.valdosta.edu/>. Specifically, the five undergraduate educational outcomes may be viewed at [http://catalog.valdosta.edu/undergraduate/academic-6\(eroBDC q0.000008a/F1 9.96 Tf1 0 0410\(u\)-14/F1 9.9cieo\)-5\(t b](http://catalog.valdosta.edu/undergraduate/academic-6(eroBDC q0.000008a/F1 9.96 Tf1 0 0410(u)-14/F1 9.9cieo)-5(t b)

Date	Topics	Related material in text or other resources
Wed. Aug. 17	Introduction to viruses Impact of viruses Molecular biology & host cell	Ch. 1 Ch. 2 (2 nd E); Ch. 3 (3 rd E)
	<i>Possible topics for oral presentations for students in both BIOL 4510 & BIOL 6510 have been posted.</i>	
	<i>BIOL 6510 students should consider possible topics (other than the ones listed for the oral presentations) for their extended papers.</i>	
Mon. Aug. 22	Molecular biology & host cell Virus architecture and nomenclature	Ch. 2 (2 nd E); Ch. 3 (3 rd E) Ch. 3&4 (2 nd E); Ch. 2&3 (3 rd E)
Wed. Aug. 24	Virus architecture and nomenclature Virus replication cycles	Ch. 3&4 (2 nd E); Ch. 2&3 (3 rd E) Ch. 4 (2 nd E); Ch. 3 (3 rd E)
Mon. Aug. 29	Virus replication cycles Virus taxonomy Laboratory diagnosis of viral diseases & Working with viruses in the research laboratory	Ch. 4 (2 nd E); Ch. 3 (3 rd E) To be announced Ch. 5 (2 nd E); Ch. 7 (3 rd E)
Wed. Sept. 31	Laboratory diagnosis of viral diseases & Working with viruses in the research laboratory	Ch. 5 (2 nd E); Ch. 7 (3 rd E) To be announced
Mon. Sept. 5	Labor Day (holiday)	
Wed. Sept. 7	Laboratory diagnosis of viral diseases & Working with viruses in the research laboratory	Ch. 5 (2 nd E); Ch. 7 (3 rd E) To be announced
	<i><u>Assignment on Foundations of Virology is due in BlazeView</u></i>	
	<i>Discussion about selection of topics for oral presentations & what constitutes a primary source</i>	
	<i>Students taking BIOL 6510 should submit possible topics for extended paper in BlazeView</i>	
	<u>Assignment:</u> Mechanisms of viral entry & spread of infection in the body (Please read this chapter in the textbook)	Ch. 6 (2 nd E); Ch. 4 (3 rd E)
Mon. Sept. 12	Mechanisms of viral entry & spread of infection in the body Host resistance to viral infections	Ch. 6 (2 nd E); Ch. 4 (3 rd E) Ch. 7 (2 nd E); Ch. 5 (3 rd E)
	<i><u>Select topics for oral presentations (all students)</u></i>	

Date	Topics	Related material in text or other resources
Wed. Sept. 14	EXAM 1	
Mon. Sept. 19	Host resistance to viral infections	Ch. 7 (2 nd E); Ch. 5 (3 rd E)
Wed. Sept. 21	Host resistance to viral infections	Ch. 7 (2 nd E); Ch. 5 (3 rd E)

Date	Topics	Related material in text or other resources
Mon. Nov. 7	Other viruses	Ch. 20-21 (2 nd E); Ch. 19-20 (3 rd E)
Wed. Nov. 9	Other viruses Student oral presentations	Ch. 20-21 (2 nd E); Ch. 19-20 (3 rd E)
Mon. Nov. 14	Student oral presentations	
Wed. Nov. 16	Student oral presentations	
Mon. Nov. 21	Student oral presentations	
THANKSGIVING HOLIDAY		
Mon. Nov. 28	Student oral presentations	
Wed. Nov. 30	Student oral presentations	
Mon. Dec. 5	Student oral presentations	
Thurs. Dec. 10	FINAL EXAM: 2:45-4:45 pm	

Attendance. Attendance will generally be checked in class. As stated in the VSU Undergraduate Catalog, “A student who misses more than 20% of the scheduled classes of a course will be subject to receiving a failing grade in the course.” In particular, students should do their best to attend and participate during class periods when student oral reports are scheduled.

Examinations. Examinations may include questions of the multiple-choice, matching, true-false, short answer, problem, and essay formats. ThrTmsayAM--

paper. These articles may not include the article(s) being used for the student's oral presentation. Complete copies of the chosen articles must be submitted in BlazeView. Review articles may be used in addition to the primary sources; however, the review article(s) should be used for background information and should not be the main focus of the paper. A copy of any review article that is used must also be submitted in BlazeView. The main focus of the paper should be the three primary sources. It is expected that the student will critically discuss the three primary references. Turnitin will most likely be used to assess plagiarism. Plagiarized papers will receive a score of 0. No direct quotations from the sources are permitted in the paper.

Late assignments. Students are expected to submit assignments on time. Unless there is a documented, serious emergency, substantial penalties may be applied to late assignments.

GRADING: Please note that completion of all assignments is required in order to pass BIOL 4510 or 6510.

BIOL 4510: All assignments relate to the three course objectives

Points:	Introduce yourself	20 points
	Foundations of Virology assignment	120 points
	Exam 1	200 points
	Exam 2	200 points
	Final Exam	230 points
	Oral presentation (including source & PowerPoint)	230 points
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	Total	1000 points

Grading scale for BIOL 4510: **≥900, A; 800-899, B; 700-799, C; 600-699, D; ≤599, F**

BIOL 6510: All assignments relate to the three course objectives

Points:	Introduce yourself	20 points
	Foundations of Virology assignment	120 points
	Exam 1	200 points
	Exam 2	200 points
	Final Exam	230 points
	Oral presentation (including source & PowerPoint)	230 points
	Topic and references for extended paper	30 points
	Extended paper	

The information below was received after the syllabus for BIOL 4510/6510 had already been finalized and copies made. It is being made available here for your convenience.